



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
2100 RENAISSANCE BOULEVARD, SUITE 100  
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

August 1, 2012

Mr. Paul A. Harden  
Site Vice President  
FirstEnergy Nuclear Operating Company  
Beaver Valley Power Station  
P. O. Box 4, Route 168  
Shippingport, PA 15077-0004

SUBJECT: BEAVER VALLEY POWER STATION – NRC EVALUATED EMERGENCY  
PREPAREDNESS EXERCISE – INSPECTION REPORT NOS.  
05000334/2012503 AND 05000412/2012503

Dear Mr. Harden,

On June 21, 2012, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection of the June 19, 2012, evaluated emergency preparedness exercise at your Beaver Valley Power Station. The enclosed inspection report documents the inspection results, which were discussed on June 21, 2012, with you and other members of your staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

Based on the results of this inspection, no findings were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure and your response (if any) will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of the NRC's document system, Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

Raymond R. McKinley, Acting Chief  
Plant Support Branch 1  
Division of Reactor Safety

Docket Nos. 50-334, 50-412  
License Nos. DPR-66, NPF-73

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/RA/

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Division of Reactor Safety

Docket Nos. 50-334, 50-412  
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DOCUMENT NAME: G:\DRS\Plant Support Branch 1\Barr\EP Ex12 Beaver Valley\Beaver Valley EP EX 2012 Report.docx  
ADAMS ACCESSION NUMBER: ML12216A032

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OFFICE	RI/DRS	RI/DRP	RI/DRS		
NAME	SBarr/CJC	GHunegs	RMcKinley		
DATE	8/1/12	8/1/12	8/1/12		

OFFICIAL RECORD COPY

P. Harden

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Enclosure:

NRC Inspection Report No. 05000334/2012503  
and 05000412/2012503

cc w/encl: Distribution via ListServ

G. Cannon, Director, PA Emergency Management  
Agency (PEMA) and Office of Homeland Security Advisor  
D. Hammons, RAC Chair, FEMA Region III

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**U.S. NUCLEAR REGULATORY COMMISSION**

**REGION I**

Docket No: 50-334, 50-412

License No: DPR-66, NPF-73

Report No: 05000334/2012503, 05000412/2012503

Licensee: FirstEnergy Nuclear Operating Company (FENOC)

Facility: Beaver Valley Power Stations Units 1 and 2

Location: P. O. Box 4, Route 168  
Shippingport, PA 15077-0004

Dates: June 18 – June 21, 2012

Inspectors: S. Barr, Sr. Emergency Preparedness Inspector, Division of Reactor  
Safety (DRS), Region I (Lead)  
C. Crisden, Emergency Preparedness Inspector, DRS, Region I  
D. Silk, Senior Operations Inspector, DRS, Region I  
J. Laughlin, Emergency Preparedness Specialist, Office of Nuclear  
Security and Incident Response (NSIR)  
T. Ziev, Reactor Engineer, Division of Reactor Projects (DRP),  
Region I (Training)

Approved By: Raymond R. McKinley, Acting Chief  
Plant Support Branch 1  
Division of Reactor Safety

Enclosure

## **SUMMARY OF FINDINGS**

IR 05000334/2012503, 05000412/2012503; 6/18/2012 - 6/21/2012; Beaver Valley Power Station; Exercise Evaluation; Emergency Preparedness Performance Indicators.

This was an announced inspection conducted by four region-based inspectors and one headquarters inspector. No findings were identified. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 4, dated December 2006.

### **Cornerstone: Emergency Preparedness**

A. NRC-Identified and Self-Revealing Findings

No findings were identified.

B. Licensee-Identified Findings

None.

## REPORT DETAILS

### 1. REACTOR SAFETY

Cornerstone: Emergency Preparedness (EP)

#### 1EP1 Exercise Evaluation (71114.01 – 1 Sample)

##### a. Inspection Scope

Prior to the June 19, 2012, emergency preparedness exercise, the NRC inspectors conducted an in-office review of the exercise objectives and scenario, which FirstEnergy Nuclear Operating Company (FENOC) had submitted to the U.S. Nuclear Regulatory Commission (NRC), to determine if the exercise would test major elements of the Beaver Valley Emergency Plan as required by Title 10 of the *Code of Federal Regulations* (10 CFR) 50.47(b)(14). This overall exercise inspection activity represented the completion of one sample on a biennial cycle.

The exercise evaluation consisted of the following review and assessment:

- The adequacy of FENOC's performance in the biennial full-participation exercise regarding the implementation of the risk-significant planning standards (RSPS) described in 10 CFR 50.47(b)(4), (5), (9), and (10), which are: emergency classification; offsite notification; radiological assessment; and protective action recommendations, respectively.
- The overall adequacy of FENOC's Beaver Valley emergency response facilities with regard to NUREG-0696, "Functional Criteria for Emergency Response Facilities," and Emergency Plan commitments. The facilities assessed were the Control Room Simulator, Technical Support Center (TSC), and Emergency Operations Facility (EOF).
- A review of other performance areas, such as: the licensee emergency response organization's (ERO's) recognition of abnormal plant conditions; command and control; intra- and inter-facility communications; prioritization of mitigating activities; utilization of repair and field monitoring teams; interface with offsite agencies; staffing and procedure adequacy; and the overall implementation of the emergency plan and its implementing procedures.
- A review of past performance issues from the last NRC Beaver Valley exercise inspection report and FENOC's EP drill reports, to determine the effectiveness of licensee corrective actions as demonstrated during the June 19, 2012, exercise and to ensure compliance with 10 CFR 50.47(b)(14).

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- The licensee's post-exercise critiques, to evaluate FENOC's self-assessment of its ERO performance during the June 19, 2012, exercise and to ensure compliance with 10 CFR Part 50, Appendix E, Section IV.F.2.g.

The inspectors reviewed the documents listed in the attachment to this report.

b. Findings

No findings were identified.

**4. OTHER ACTIVITIES (OA)**

4OA1 Performance Indicator (PI) Verification (71151 – 3 Samples)

a. Inspection Scope

The inspectors reviewed data for the Beaver Valley EP PIs, which are: (1) Drill and Exercise Performance (DEP); (2) ERO Drill Participation; and, (3) Alert and Notification System (ANS) Reliability. The last NRC EP inspection at Beaver Valley was conducted in the second calendar quarter of 2011, so the inspectors reviewed supporting documentation from EP drills, training records, and equipment tests from the second calendar quarter of 2011 through the first quarter of 2012, to verify the accuracy of the reported PI data. The review of these PIs was conducted in accordance with NRC Inspection Procedure 71151, using the acceptance criteria documented in NEI 99-02, "Regulatory Assessment Performance Indicator Guidelines," Revision 6.

This inspection activity represented the completion of three samples.

b. Findings

No findings were identified.

4OA6 Meetings, including Exit

On June 21, 2012, the inspectors presented the results of this inspection to Mr. P. Harden, Beaver Valley Site Vice President, and other members of the FENOC staff. No proprietary information was provided to the inspectors during this inspection.

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**ATTACHMENT**

**SUPPLEMENTAL INFORMATION**

**KEY POINTS OF CONTACT**

**Licensee Personnel**

P. Harden, Site Vice President

G. Cramer, Site Emergency Preparedness Manager

**LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED**

None.

**LIST OF DOCUMENTS REVIEWED**

**Section 1EP1: Exercise Evaluation**

Beaver Valley Power Station Emergency Preparedness Plan (Revision 27)

Beaver Valley Power Station Emergency Plan Implementing Procedures

Beaver Valley June 19, 2012, Emergency Exercise Scenario Package

Beaver Valley Emergency Preparedness Drill Reports, January 2011 - June 2012

Condition Reports generated as a result of the June 19, 2012, exercise (As documented in

SN-SA-2012-0186, 2012 NRC Evaluated Exercise Performance Results –

ERO White Team Report, dated July 18, 2012)

**Section 4OA1: Performance Indicator Verification**

Procedure NOBP-LP-4012, NRC Performance Indicators (Revision 3)

Procedure 1/2-ADM-1111, NRC EPP Performance Indicator Instructions (Revision 3)

ERO Drill Participation PI Data, April 2011 – March 2012

Public Notification System PI Data, April 2011 – March 2012

DEP PI Data, April 2011 – March 2012

**LIST OF ACRONYMS**

ADAMS	Agencywide Documents Access and Management System
ANS	Alert Notification System
BVPS	Beaver Valley Power Station
CR	Condition Report
DEP	Drill and Exercise Performance
EAL	Emergency Action Level
EOF	Emergency Operations Facility
EP	Emergency Preparedness
ERO	Emergency Response Organization
FENOC	FirstEnergy Nuclear Operating Company
NEI	Nuclear Energy Institute
NRC	Nuclear Regulatory Commission
PAR	Protective Action Recommendation
PI	Performance Indicator
RSPS	Risk Significant Planning Standard
TSC	Technical Support Center